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i praktisk medicin

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Klinisk Kemi Laurells:

Laurells klinisk kemi i praktisk medicin Per Fernlund, 1991 Laurells klinisk kemi i praktisk medicin Carl-Bertil Laurell, Per Fernlund, 1991 *Understanding and Managing Thrombotic Risks in Medical Conditions* Menikae Kanchena Heenkenda, 2024-08-20

Hemostasis is a critical physiological process that stops bleeding at the site of an injury while ensuring normal blood flow elsewhere thereby preventing excessive clot formation that could lead to dangerous conditions like thrombosis. This delicate balance is influenced by genetics, medical conditions such as cancer, and various medications. When a blood vessel is damaged, platelets adhere to the exposed area, become activated, and aggregate to form an initial plug. Coagulation factors, particularly thrombin, create a strong fibrin network to stabilize the clot. Disruptions in this process can result in significant bleeding or dangerous clot formation. This thesis aims to explore and understand the factors affecting coagulation and the risks of thrombotic events in different medical contexts. This includes studying genetic variability in the protease-activated receptor 4 (PAR4) gene, specifically the Ala120Thr variant, among sub-Saharan African populations; identifying genetic and non-genetic risk factors for venous thromboembolism (VTE) in patients with brain cancer; glioblastoma multiforme (GBM) and investigating the impact of intravenous morphine on platelet activity in patients with ST-elevation myocardial infarction (STEMI) treated with ticagrelor, a P2Y₁₂ inhibitor. The A allele of the rs773902 single nucleotide polymorphism (SNP) in the PAR4 gene (F2RL3) substitutes threonine for alanine at the 120th protein position (Thr120). This allele is more prevalent in African populations compared to Caucasian populations, although previous studies did not specify the geographic ancestry of participants. Thr120 is associated with higher PAR4-induced human platelet aggregation and Ca²⁺ flux. Our study found that the frequency of the A allele in the Somali population is significantly lower than previously reported for African Americans. The A allele frequency in Somalis is 38% compared to 63% for African Americans. The A allele frequency in Somalis is closer to that of the Maasai population in Kenya (41%) but vastly different from the Esan population in Nigeria (68%). Certain cancers, such as GBM, are associated with a higher risk of VTE, including deep vein thrombosis (DVT) and pulmonary embolism (PE). Our research identified blood group B as a significant risk factor for patients with GBM (OR 6.91, 95% CI 2.2–24.1, P = 0.001). Also, GBM tumors in the frontal lobe are associated with an increased risk of VTE (OR 3.14, 95% CI 1.1–10.7, P = 0.05). Our study on morphine, commonly used for pain management in STEMI patients, found that morphine is associated with increased platelet aggregation one hour after percutaneous coronary intervention (PCI), impacting the efficacy of ticagrelor. Morphine delays platelet inhibition by affecting the pharmacodynamics of antiplatelet therapy, likely by delaying gastric emptying. However, this effect is short-lived as platelet reactivity returns to similar levels in both groups 12 hours post-PCI. Despite this immediate impact on platelet function, our research found no significant differences in biomarkers of platelet activity, coagulation, or inflammation between the morphine and non-morphine groups. Additionally, all patients in our study were administered unfractionated heparin injections or bivalirudin infusion during primary PCI, which may help control the

risk of blood clot formation These studies collectively emphasize the need for individualized strategies to manage thrombotic risks and coagulation The significant genetic variability among sub Saharan African populations highlights the need for precise genetic research to understand how genetics influence coagulation and develop personalized medical strategies The increased risk of cancer associated thrombosis particularly in patients with GBM calls for individualized anticoagulant therapies based on unique risk profiles such as blood group typing and tumor location Incorporating these insights into clinical practice can help healthcare providers better identify high risk patients and tailor thromboprophylaxis strategies accordingly Similarly the impact of morphine on patients with STEMI treated with ticagrelor requires careful consideration In conclusion these findings underscore the importance of a personalized approach in managing coagulation and thrombotic risks The studies show that genetic variability specific medical conditions and medication effects are crucial in thrombotic risk Therefore customized strategies based on individual patient profiles and contexts are essential for effectively managing and preventing thrombotic events

Circulating levels and assessment of clinical laboratory analytes, in >80-year-old, apparently healthy, moderately healthy, and frail individuals Maria Edvardsson, 2019-09-09 Blood samples are often used to investigate the possible presence of disease and to make treatment decisions In the interpretation of the results comparison either with previous values from the same individual or with a set of appropriate group based reference intervals are used Current reference intervals for common laboratory analytes are often based on measurements from apparently healthy persons aged 18-65 years Age is accompanied by a general decline in organ functions and it is difficult to determine whether a change in levels of laboratory analytes in an elderly individual can be attributed to age alone independent of environmental or disease processes Frailty can be seen as a consequence of age related multifactorial deterioration physical cognitive and sensory resulting in vulnerability and lack of adaptability to internal stressors such as infection or new medication and or external stressors such as fall at home Consensus about the definition of frail and frailty is missing both nationally and internationally the question arises whether different definitions of frailty affect the interpretation of analytes when comparing different groups of elderly The overarching aim of the thesis was to interpret and assess circulating levels of some clinical laboratory analytes in relation to conventional reference values in 80 year old apparently healthy moderately healthy and frail individuals Data originated from other studies in which blood samples were collected from individuals 80 year old Comparisons in Paper I of levels of some laboratory analytes from 138 nursing home residents NHRs was made with blood from reference populations both blood donor and the NORIP study The results indicated differences for some immunological complement factor 3 and 4 immunoglobulin G and M and chemical analytes alanine aminotransferase ALT phosphate albumin sodium creatinine and urea but no differences in levels occurred for aspartate aminotransferase AST gamma glutamyltransferase GT or lactate dehydrogenase LDH It was unclear whether the differences were due to differences in age between the elderly and the reference populations or whether the elderly individuals had chronic diseases and were on

medication In Paper II 569 individuals elderly individuals 80 years old were classified as healthy moderately healthy and frail based on diseases medications and physical and cognitive abilities Statistical differences between the groups were found for the investigated analytes albumin ALT AST creatinine and GT In Paper IV individuals from Paper II n 569 were divided into two groups and thereafter divided into apparently healthy moderately healthy and frail One group was subdivided into apparently healthy moderately healthy and frail based on physical and cognitive abilities and the other group was divided based on the frailty index FI There was no statistical difference found between apparently healthy and moderately healthy groups regardless of classification model used Among frail individuals differences in levels occurred for three out of the five investigated analytes ALT creatinine and g GT with lower levels occurring when the FI classification model was used No differences in levels occurred for albumin or AST in frail individuals regardless of classification model used The aim of Paper III was to study whether 1 year changes in complete blood count CBC including haemoglobin Hb red blood cell RBC erythrocyte volume fraction EVF mean corpuscular volume MCV mean corpuscular Hb concentration MCHC white blood cell WBC and platelet count PLT C reactive protein CRP and interleukin IL 1 IL 1RA IL 6 IL 8 and IL 10 are associated with survival in elderly NHRs aged 80 years Elevated levels of CRP and IL 8 during 1 year follow up were associated with reduced length of survival in elderly NHRs Based on the present thesis it is clear that there is need for reference intervals that consider both age and health status in elderly individuals A reasonable conclusion when interpreting levels of analytes in elderly individuals with disease or frailty is that individual evaluation based on the individual s previous levels is recommended Blodprover anv nds ofta f r att unders ka ev f rekomst av sjukdomar och f r att fatta behandlingsbeslut Vid tolkningen av resultaten anv nds j mf relse antingen med tidigare v rden fr n samma individ eller med en upps ttning l mpliga gruppbaseade referensintervall Nuvarande referensintervall f r vanliga laboratorieanalyser baseras ofta p m tningar fr n tillsynes friska personer i ldern 18 65 r ldern tf ljs av en allm n nedg ng i organfunktioner och det r sv rt att avg ra om en ev f r ndring av niv erna av laboratorieanalyterna kan enbart beror p skillnaden i lder oberoende av milj eller sjukdomsprocesser Sk rhet kan ses som en konsekvens av ldersrelaterad multifaktoriell f rs mring fysisk kognitiv och sensorisk vilket resulterar i s rbarhet och brist p anpassningsf rm ga till interna stressfaktorer som infektion eller ny medicinering och eller yttre stressorer s som att ramla hemma Konsensus om definitionen av sk rhet saknas b de nationellt och internationellt och fr gan uppstod om olika definitioner av sk rhet p verkar tolkningar och referensintervall f r laboratorieanalyser n r man j mf r olika grupper av ldre individer Det vergripande syftet med avhandlingen var att tolka och bed ma cirkulerande niv er f r n gra kliniska laboratorieanalyser i f rh llande till g llande referensv rden hos 80 riga h lsosamma m ttligt friska och sk ra individer Data kommer fr n andra studier inom vilka blodprov samlades alla fr n individer 80 r J mf relser i studie I gjordes mellan blodprover fr n 138 individer i s rskilt boende med blodprover fr n referenspopulationer b de blodgivare och fr n NORIP studien Resultaten visade skillnader f r vissa immunologiska komplementfaktor 3 och 4 och kemiska analyser

alaninaminotransferas Alat fosfat albumin natrium kreatinin och urea men inte alla aspartataminotransferas Asat gamma glytamytransferas GT eller laktatdehydrogenas LD Det var oklart om skillnaderna berodde p skillnader i lder mellan de ldre och referenspopulationerna eller om de ldre individerna hade kroniska sjukdomar och medicinerade I studie II klassificerades 569 individer 80 r som h lsosamma m ttligt friska och sk ra baserat p sjukdomar medicinerad och fysiska och kognitiva f rm gor Statistiska skillnader mellan grupperna hittades f r de unders kta analyterna albumin Alat Asat kreatinin och y GT I studie IV delades individer fr n papper II n 569 in i tv grupper och delades d refter upp i h lsosamma m ttligt friska och sk ra En grupp delades in i h lsosamma m ttligt friska och sk ra baserat p fysiska och kognitiva f rm gor och den andra gruppen delades in baserat p sk rhetsindex Det fanns ingen statistisk skillnad mellan h lsosamma och m ttligt friska grupperna oavsett vilken klassificeringsmodell som anv ndes Bland sk ra individer intr ffade skillnader i niv er f r tre av de fem unders kta analyterna Alat kreatinin och GT med l gre niv er d r sk rhetsindex hade anv nts som klassificeringsmodell j mf rt klassificering baserad p fysiska och kognitiva f rm gor Syftet med studie III var att studera om 1 rs f r ndrningar i blodstatusparametrar hemoglobin Hb erytrocytpartikelkoncentration EPK erytrocytvolymfraction EVF medelcellvoly m MCV mean corpuscular Hb concentration MCHC leukocytpartikelkoncentration LPK och trombocytpartikelkoncentration TPK C reaktivt protein CRP och interleukin IL 1 IL 1Ra IL 6 IL 8 och IL 10 var associerade med verlevnad hos individer fr n s rskilt boende 80 r De mest framtr dande resultaten var att f rh jda niv er av CRP och IL 8 under 1 rs uppf ljning var f rknippade med f rkortad verlevnadstid hos ldre fr n s rskilt boende Baserat p den aktuella avhandlingen r det tydligt att det finns behov av referensintervall som beaktar b de lder och h lsostatus hos ldre individer En rimlig slutsats n r man tolkar niv er av laboratorieanalyser hos ldre individer med sjukdom eller sk rhet r att individuell utv rdering baserad p individens tidigare niv er rekommenderas

TAASK Prevent and manage crises in anesthesiology Owain Thomas,Kristin

Savolainen,2021-07-12 PLEASE NOTE this book should be read in the Google Play Books app it cannot be read in Google Play Books in a web reader e g Microsoft Edge Safari Prevent and manage crises in anesthesiology gives anesthesiologists and allied professionals an overview of the non technical and technical skills and knowledge that may be required at very short notice at almost any time of the day This book is suitable as a a biannual refresher as preparation before simulation training and as a day to day clinical reference Although the contributors are based almost exclusively in Sweden major international guidelines are referred to and compared where appropriate Table of contents 1 Introduction Safety in anesthesia non technical skills and team training 2 Principles of avoiding and approaching crises during anesthesia 3 A structured approach to improve decision making and avoid errors 4 Airway assessment and management 5 Intra and interhospital transport 6 The patient with Heart disease in non cardiac surgery 7 Circulatory failure during anesthesia 8 Intraoperative arrhythmia 9 Cardiac arrest during anesthesia 10 Peroperative hypertension 11 Massive hemorrhage 12 Abnormal capnography hypoxia and problems with ventilation 13 Malignant hyperthermia 14 Anaphylaxis during anesthesia 15 LAST systemic toxicity

caused by local anesthetics 16 Acute poisoning 17 Obstetric crises in anesthesia 18 Electrolyte disturbances Laurells
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hantering av luftv gar 5 Transport inom och mellan sjukhus 6 Den hj rtsjuka patienten inf r icke kardiell kirurgi 7
Circulationssvikt under anestesi 8 Intraoperativ arytm 9 Hj rtstopp under anestesi 10 Peroperativ hypertoni 11 Onormal
kapnografi hypoxi och Ventilationssv righeter 12 Massiv bl dning 13 Malign hypertermi 14 Anafylaxi i samband med anestesi
15 LAST systemtoxiska effekter av lokalanestetika 16 Akut f rgiftning 17 Obstetriska kriser och anestesi 18
Elektrolytrubbningar **Journal of the American Medical Association**, 2002 *La kartidningen*, 1988 **Klinisk**
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Table of Contents Klinisk Kemi Laurells

1. Understanding the eBook Klinisk Kemi Laurells
 - The Rise of Digital Reading Klinisk Kemi Laurells
 - Advantages of eBooks Over Traditional Books
2. Identifying Klinisk Kemi Laurells
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Klinisk Kemi Laurells
 - User-Friendly Interface
4. Exploring eBook Recommendations from Klinisk Kemi Laurells
 - Personalized Recommendations
 - Klinisk Kemi Laurells User Reviews and Ratings
 - Klinisk Kemi Laurells and Bestseller Lists
5. Accessing Klinisk Kemi Laurells Free and Paid eBooks

- Klinisk Kemi Laurells Public Domain eBooks
- Klinisk Kemi Laurells eBook Subscription Services
- Klinisk Kemi Laurells Budget-Friendly Options
- 6. Navigating Klinisk Kemi Laurells eBook Formats
 - ePub, PDF, MOBI, and More
 - Klinisk Kemi Laurells Compatibility with Devices
 - Klinisk Kemi Laurells Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Klinisk Kemi Laurells
 - Highlighting and Note-Taking Klinisk Kemi Laurells
 - Interactive Elements Klinisk Kemi Laurells
- 8. Staying Engaged with Klinisk Kemi Laurells
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Klinisk Kemi Laurells
- 9. Balancing eBooks and Physical Books Klinisk Kemi Laurells
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Klinisk Kemi Laurells
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Klinisk Kemi Laurells
 - Setting Reading Goals Klinisk Kemi Laurells
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Klinisk Kemi Laurells
 - Fact-Checking eBook Content of Klinisk Kemi Laurells
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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